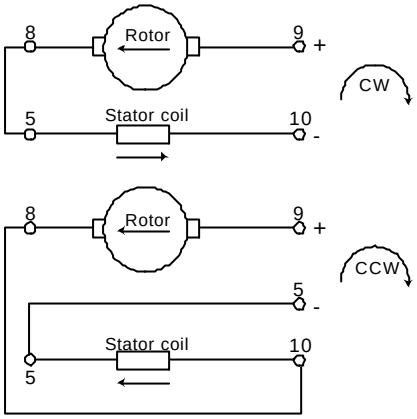
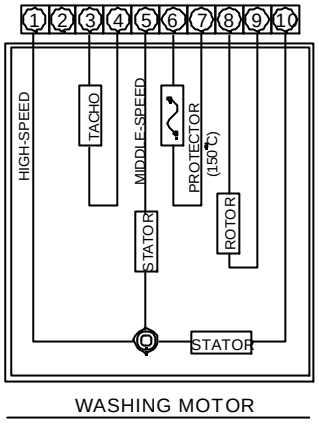
10. Designation of Main Components

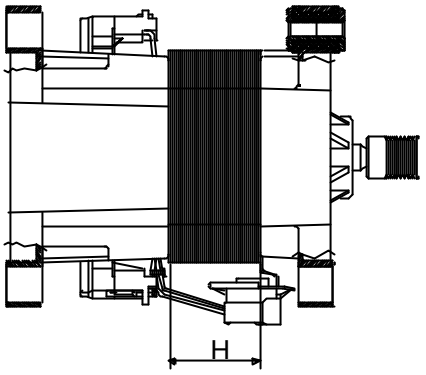
10-1 Normal / Reverse Revolution of Motor and R. P. M. Control



<Figure1>



<Figure2>

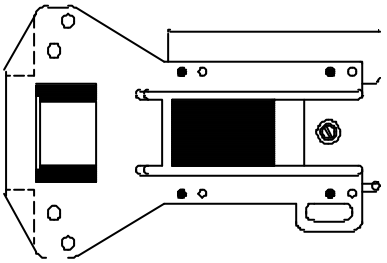


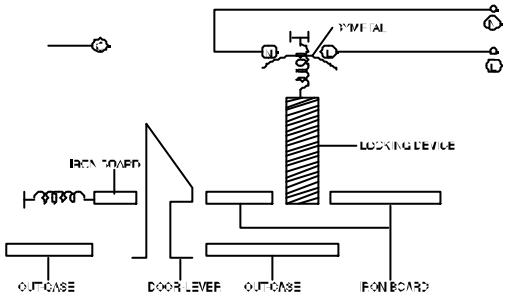
<Figure3>

(? ???	STATOR(5.1)	STATOR(5.1)	ROTOR(8.9)	TACHO(3.4)	PROTECTOR(6.7)	"H"(mm)	Code-No.	Remark
Resistance value	2.07?	0.90?	2.35?	34.??	0	45	DC31-00002E	
Rated value	220~240V/50Hz							

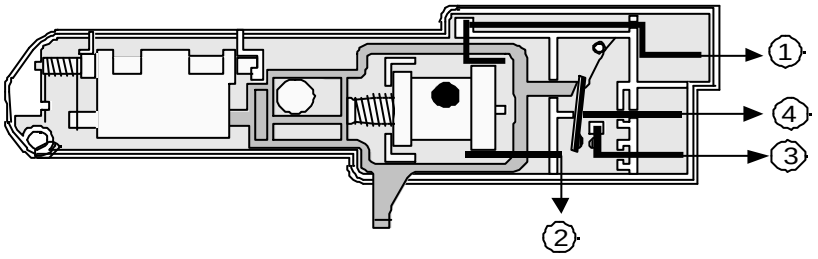
10-2 Door safety Device (F1213J/F1013J/F813J)

When Door is closed, door stay closed. if "set" is operated, power supplied to ⓝ , ⓛ wires have bymetal keep the door closed, and electronical power flows between ⓛ and ⓒ make it operate.





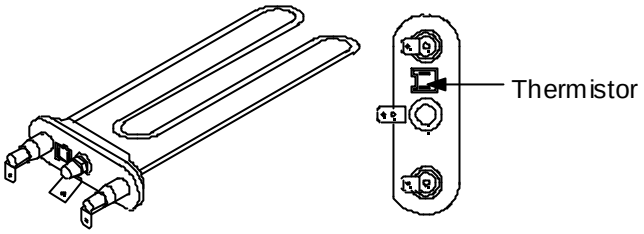
10-2 Door safety Device (F1215J/F1015J/F815J)



1)Capacity :
- ① – ② (solenoid) : 120 Ω
- ③ ~ ④ : 250 V 16A

10-3 Heater

1) Capacity : AC 230V/1900W
2) Location : Bottom of TUB
3) Function : Raise the water temperature
supplied at the wash process.
4) Resistance value : 23~29
5) Thermal Fuse : 128°C



10-4 Detergent tub and water supply value

A Detergent tub is composed of housing and 3 drawers . supplied water flows into the 3 drawer-detergent tub by way of classifier at each washing process.

three open drainage way whith detergent and supplied water by way of connector located under the housing flows into washing tub.

the water supply valve is composed of a hot water valve(1 way) and a cold water valve(2way) and water flow per min in the valve is below.

	Hot water valve(1 way) (OPTION)	**Cold water valve(2 way)**	
		V1	V2
water flow(L/min)	10L	10L	5L
resistance value	4.3kΩ	4.2kΩ	4.2kΩ
power consumption	AC 220v ~ 240V 50/60Hz		
usable water pressure	0.5 ~ 8 kg/cm²		

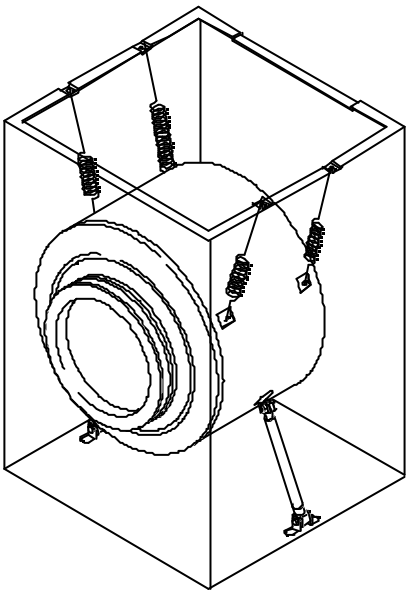
10-5 Shock absorber and buffer spring

This wash machine is equipped with 2 Shock absorbers with same capacity and with 4 buffer springs. 2 Shock absorber are placed under the tub and outside case , 4 buffer springs are placed on the right and left of the upper side of outside case.

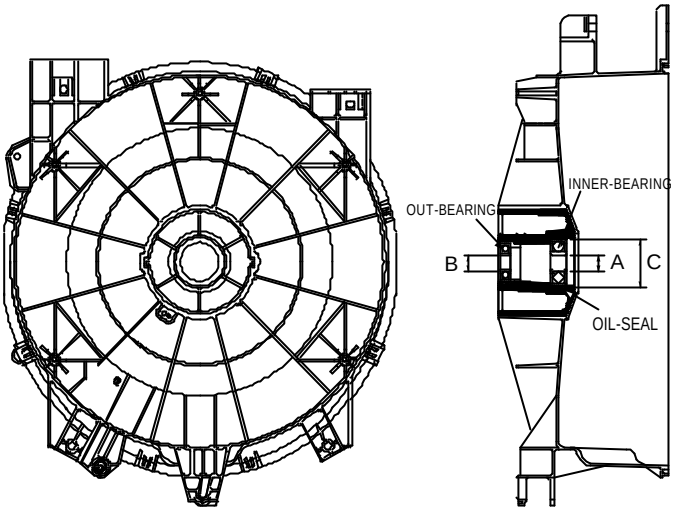
Shock absorber function: during wash, dehydration absorb the shock.

buffer spring: buffering the vibration

device	capacity of Shock absorber
Shock absorber	8±2kg



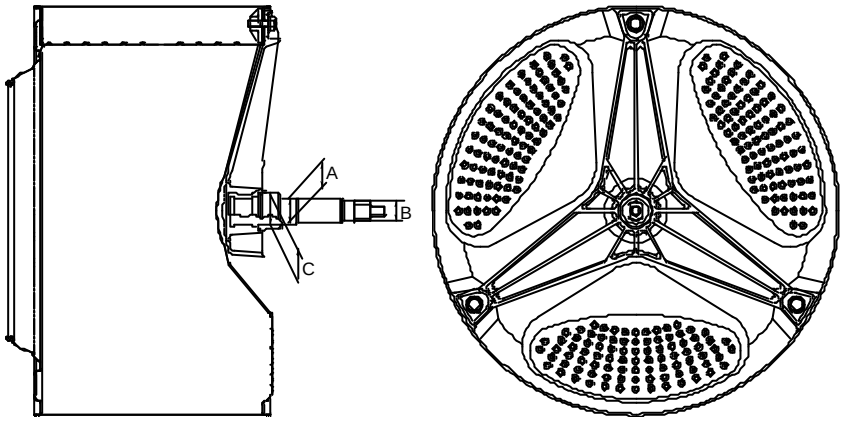
10-6 ASSY-TUB BACK



(unit : mm)

TYPE	INNER-BEARING(A)	OUT-BEARING(B)	OIL-SEAL(C)	Assy-Housing Bearing(D)	Assy-Tub Back	REMARK
I	ø 20	ø 17	ø 24.3	DC97-00125A	DC97-00214K	

10-7 ASSY- DRUM

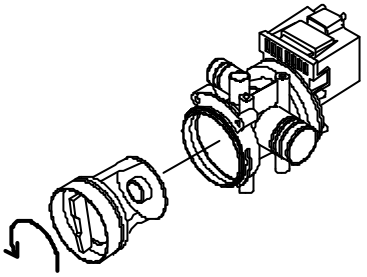


(unit : mm)

TYPE	(A)	(B)	(C)	CODE-NO.	REMARK
I	ø 20	ø 17	ø 25	DC97-01463C	Lifter type

10-8 ASSY-PUMP DRAIN

1) Capacity : AC 230V 34W
2) Location : Front bottom(R)
3) Resistance : 160Ω~ 190Ω



12. Setting up a wash machine.

12-1 Remove the safety device for carriage

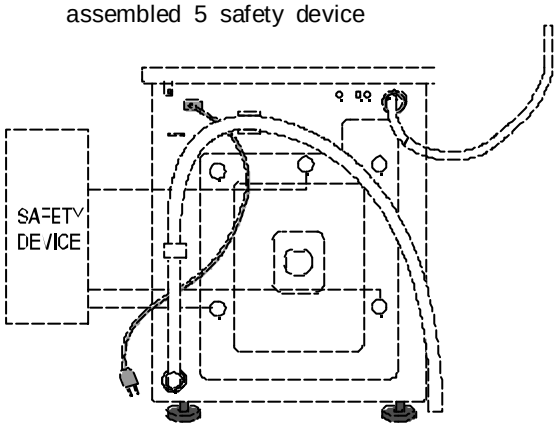
1) Remove 5 safety device volts with a enclosed wrench for safety device remove
2) Plug the 5 holes with 5 caps after removing the 5 safety device volts.

* Take care of 5 safety device volts and a wrench , you need these when you move wash machine safely.

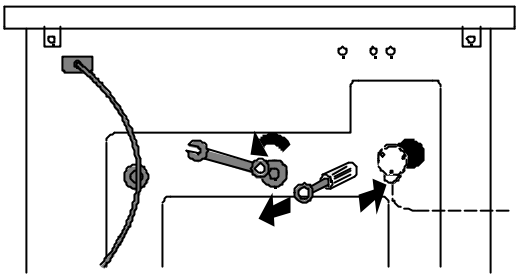
Caution

You must remove safety device before use , if not, you have much vibration or much load can br impacted on the machine.

1. Remove safety device behind of machine
   - To protect the machine, remove the assembled 5 safety device



2. Plug the 5 holes
   - Plug the 5 holes after safety device with the caps enclosed inside of washing tub



12-2 Install the wash machine on the leveled place.

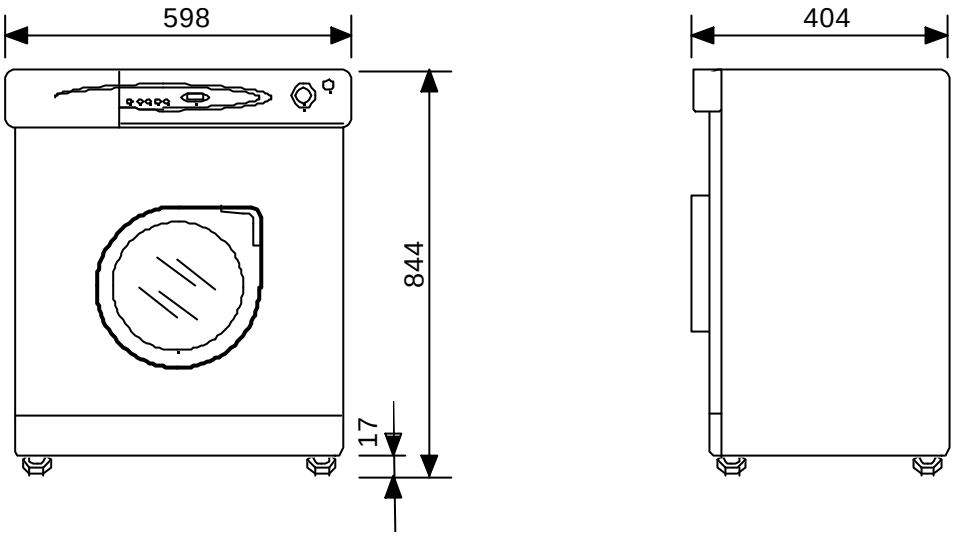
With the water level adjustment device, adjust the 4 adjustment legs to install the machine leveled on the right, left, front and rear side. machine's install condition and size is following.

12-2-1 Initial assembled condition (ass'y cover top)

1) Adjustment legs are stick to the bottom of the machine, when the machine comes out of factory. this condition is ideal for vibration and noise.
2) When you install the machine initially or move the machine in use, unscrew the 4 legs to the left and place the machine level and spin the locking nuts and tighten it strongly.

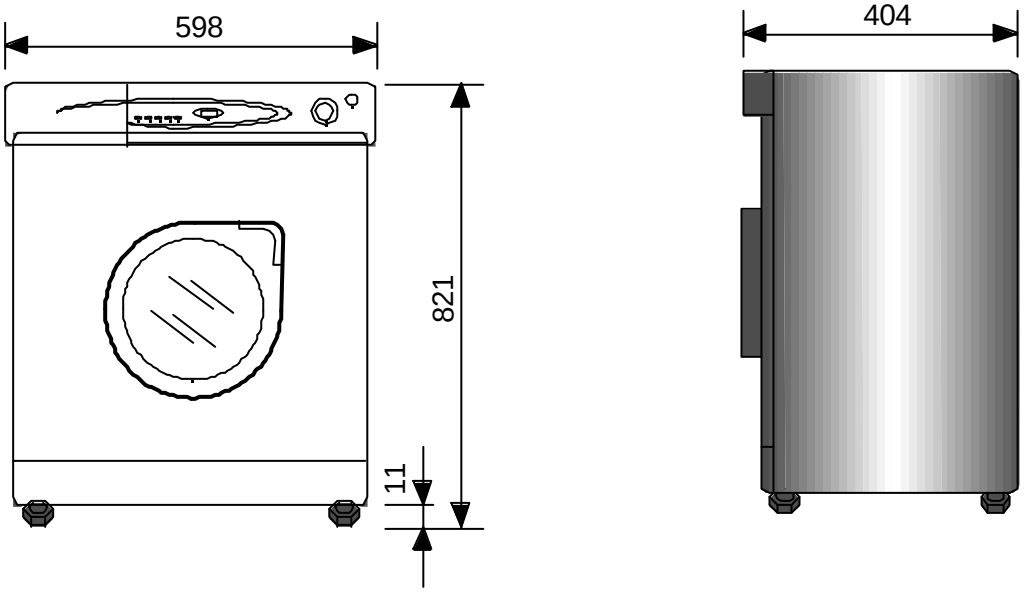
12. Setting up a wash machine.

3) Even though adjustment legs came out all the way, if machine is not levled , prop up the machine with the wood or brick to make it even.
(Do not use fragile material or slippery material such as laminated paper)

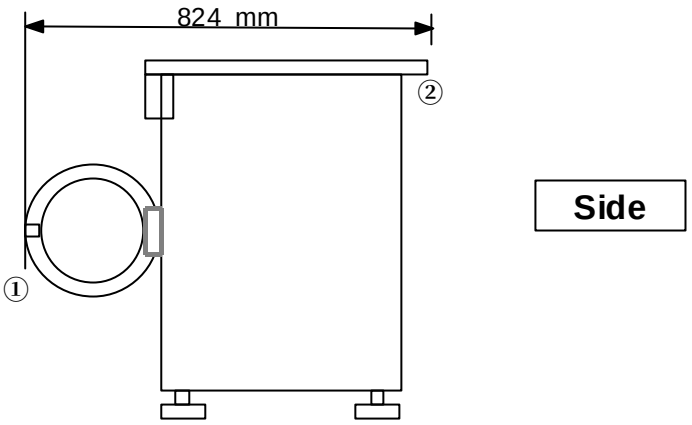


12-2-2 The condition of setting up sink(Disassembled Ass'y- Cover Top)

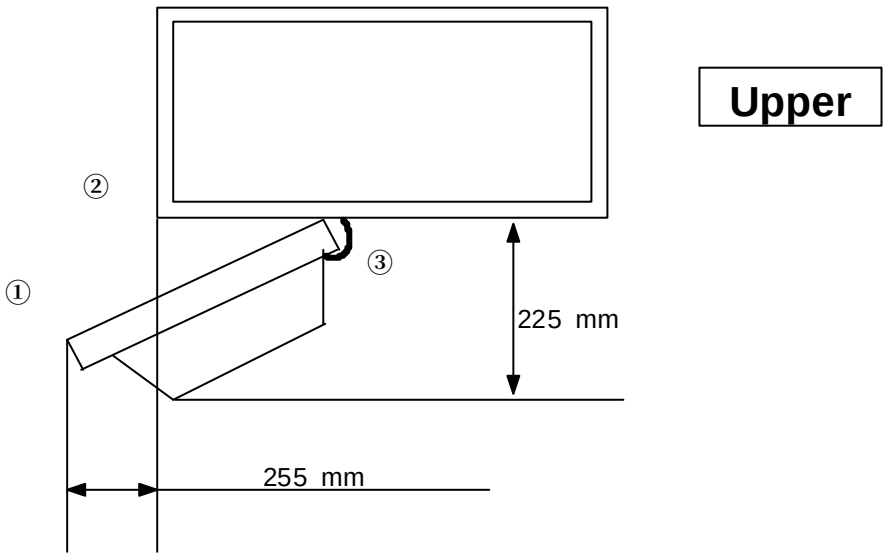
1) Spin the adjustment leg to the left and remove them from the front and rear side of the machine.
2) Remove the 4 locking nuts from adustment legs, and put only adjustment legs back whert those were.
3) After removing the fixing screws(each on right, left side) from the machine whichi is behind ass'y- cover top, disassemble the assy-cover top.
4) Install the sink.



12-3. Door Opening Dimension(Slim Model)



● (When The Door Vertically Open)
The distance between door① and the rear side② is 824mm



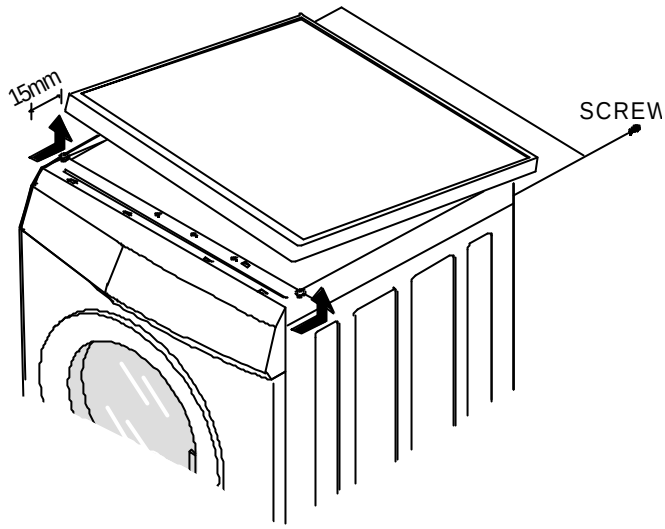
● (When the door extremely open ※)
The distance between the door edge(①) and the left side of washing machine(②) is 255mm

※ Maximum door angle(③) is 170 °

13. Assemble and Disassemble

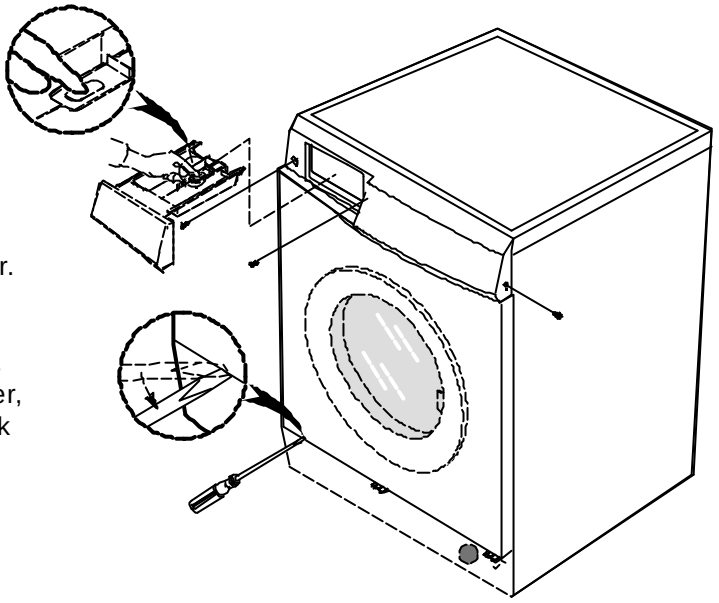
1. ASS' Y-COVER TOP

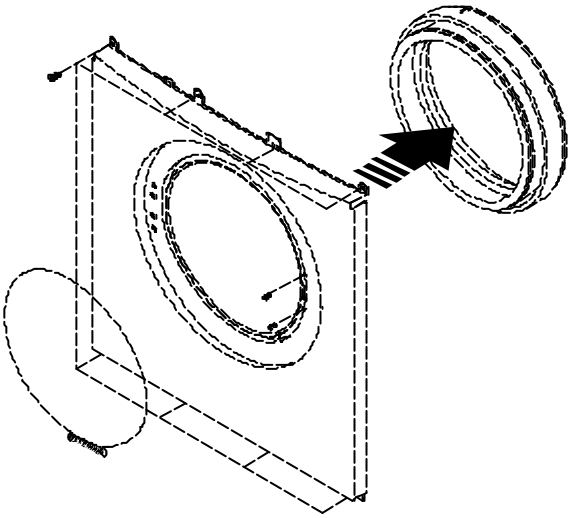
1) Remove two screws fixing the top-cover on back side.
2) Push the top-cover back about 15mm and pull it up.
3) It' s possible to exchange and service Assy-Panel (PCB), the pressure-sensor, the noise-filter, the water valve and trans(option).



2. FRAME FRONT

1) Remove the top-cover and the ass' y drawer.
2) Remove two screws fixing the control-panel on front side and the screw on right side.
3) Remove the cover-front(L) by using the (-)driver.
4) Part the diaphragm and the wire diaphragm away from the frame-front.
5) Remove the eight screws fixing the frame-front.
6) It' s possible to exchange and service the heater, the pump, the shock-absorber and the door lock s/w.

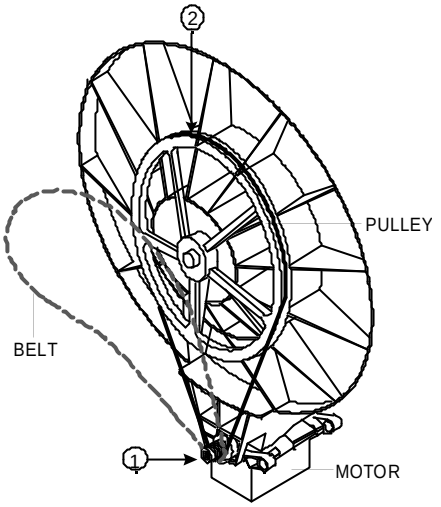




13. Assemble and Disassemble

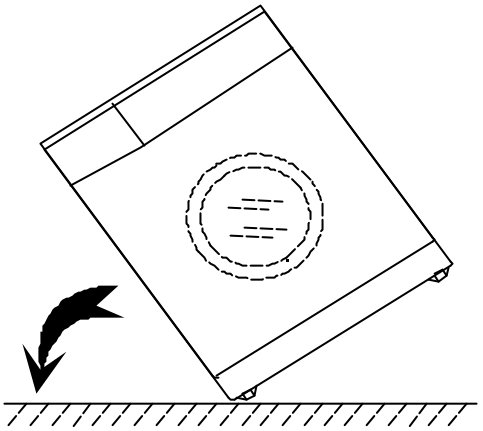
3. BELT

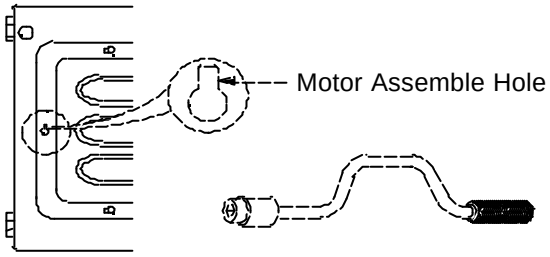
1) Remove the top-cover.
2) Disassemble and assemble the belt.
3) Check the belt is located at center of the motor-pulley.
   <When assemble the belt>
   Hook the belt on the motor pulley 1) and place it around the pulley 2).



4. MOTOR

1) Lay down the washer on left side.
2) Remove the wire housing from the motor.
3) Remove the bolt fixing the motor with the box drive on back side.
4) Remove the motor.



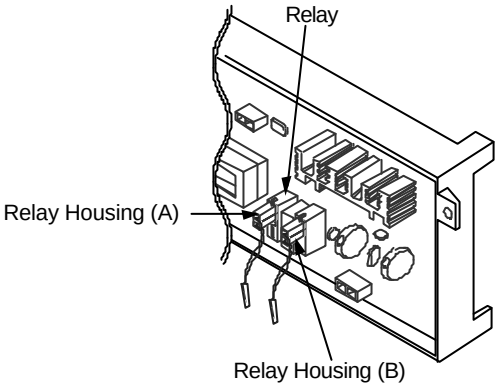


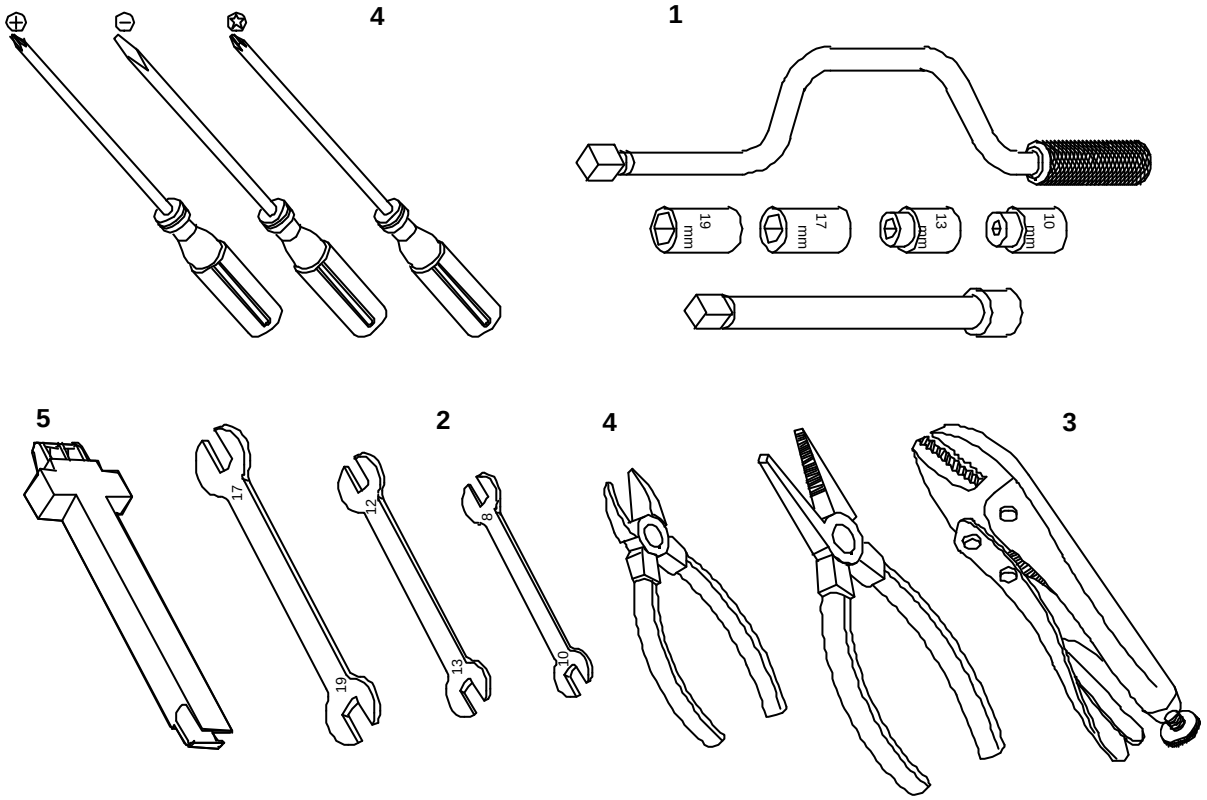
5. How to Assemble the RELAY Housing.

<CAUTION>
Insert the Relay Housing to the Relays on the opposite direation each other.

[Relay Housing Color]

A	B
WHITE	BLUE



14. Tools for Disassembly and Assembly

NO.	TOOL		
1	Box driver	10mm 13mm 17mm 19mm	Heater (1) Motor (1), Balance (5) 2 holes of each left and right of the shock absorber 1 Pulley hole
2	Double-ended spanner	10, 13 17,19mm	Replaceable for the box driver. Since the bolt runs idle when the box driver is used, use the box driver 17mm.
3	Vice pliers		Tool to protect the idle and abrasion of the bolt for the box driver.
4	Other(Driver, Nipper, Long nose)		General tools for the after service.
5	JIG for the Tub		1 (Disassemble and Assemble)